

1           What is claimed is:

2       1.     A container blank comprising:

3           a plurality of fold lines;

4           at least one aperture;

5           at least one flap aligned with a larger than said aperture;

6           a first magnetic region secured around the perimeter of and adjacent to said at  
7     least one aperture;

8           and a second magnetic region secured around the perimeter of said flap and  
9     opposite said first magnetic region , wherein said second magnetic region is aligned with  
10    and has a magnetic attraction to said first magnetic region.

11      2.     A container comprising:

12           a body a top section, and a bottom section, wherein said container at least one  
13     aperture; wherein a first magnetic region is secured to said container adjacent to the  
14     perimeter of said at least one aperture; and

15           at least one flap secured to said container and covering said at least one aperture  
16     wherein the perimeter of said at least one flap has a second magnetic region opposite said  
17     first magnetic region wherein said second magnetic region is aligned with and has a  
18     magnetic attraction to said first magnetic region.

1     3.     The container of claim 2, wherein the interior of said container body and said flap  
2     has a polymeric coating.

3     4.     A method of forming a container blank comprising:

4           providing a substrate;

5           forming folding lines on said substrate;

6           forming cut lines on said substrate;

7           forming an aperture in said substrate;

8           forming at least one flap aligned with a larger than said aperture;

9           forming a first magnetic region around the perimeter of and adjacent to said at  
10     least one aperture; and

11           forming a second magnetic region around the perimeter of said flap and opposite  
12     said first magnetic region , wherein said second magnetic region is aligned with and has a  
13     magnetic attraction to said first magnetic region.

14     5.     The method of claim 4, wherein said first and second magnetic regions are formed  
15     by securing a magnetic gaskets to the blank.

16     6.     The method of claim 4, wherein said first and second magnetic regions are formed  
17     by securing ink containing magnetic particles to the blank.

18     7.     The method of claim 6, wherein said ferrite regions formed by printing said ferrite  
19     ink are consolidated by passing the printed substrate through one or more nips formed

1 between hard rolls covered with a release coating, when said ferrite ink is in a semi-  
2 cured, plastic state.

3 8. The method of claim 7, wherein said hard rolls are constructed from a  
4 ferromagnetic material and are provided with electromagnetic coils to create a strong  
5 magnetic field oriented normal to the plane of said printed substrated so as to induce a  
6 degree of magnetic anisotropy within said printed ferrite layer, thus enhancing its  
7 magnetic properities.

8 9. A method of forming a container comprising:

9 providing a substrate;

10 forming folding lines on said substrate;

11 forming cut lines on said substrate;

12 forming an aperture in said substrate;

13 forming at least one flap aligned with a larger than said aperture;

14 forming a first magnetic region around the perimeter of and adjacent to said at

15 least one aperture;

16 forming a second magnetic region around the perimeter of said flap and opposite

17 said first magnetic region , wherein said second magnetic region is aligned with and has a

18 magnetic attraction to said first magnetic region;

1           folding and securing said substrate along said fold lines to form a container with  
2   top, main, and bottom section; and  
3           polarizing said first magnetic region with a magnetic pole;

4   10.    The method of claim 9, wherein said second magnetic region is polarized with an  
5   opposite magnetic pole to said first magnetic region.

6